## TE (comp) V Micophicesson

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GS-8871

	(3 Hours)	[Total Marks: 100
	No. 1 is compulsory.  y four questions out of the remaining six que	stions.
1.(a) Explain the disadvantag	memory segmentation in Intel 8086 processor was	ith its advantages and 10
•	errupts of Intel 8086 microprocessor.	10
(i) (ii)	8086 based system with following specification 8086 working at 8MHz 32 kbytes EPROM using 16kB devices 64 kbytes RAM using 32kB devices	on : 10

3. (a) Explain the operating modes of 8255 PPI including the handshaking operation. 10
(b) Explain the operating modes of 8254 PIT.

(b) Explain the following Intel 8086 assembly language instructions giving example. 10

Draw the complete schematic of the design indicating address map.

(1) TEST (2) NOP (3) STOS (4) DAA

4. (a) Explain the modes of operation of DMA controller.
(b) What do you understand by bus arbitration? Explain the different bus arbitration 10 techniques with diagram.

5. (a) Explain the 8288 bus controller block diagram. Explain its use.
(b) Explain the operation of three 8259 PIC in cascaded mode.
10

6. (a) Explain with neat diagram memory read and write machine cycle in maximum 10 mode.

(b) Explain addressing modes of 8085 microprocessor with example.

7. Write a short notes on (any four):—

(a) RS-232 Serial Interface Standard

(b) 8284 clock generator

(c) Fixed port and Variable port addressing

(d) Generation of Reset Signal in 8086 based system

(e) String Instructions.

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